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1239		1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1
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	Enzyme Acc1 Asp718 Asp718 AsuII AvrII BanII BanII BanII BspMII BspMII BspMII CfrI b CfrI b	Upul DraII DraII EcoRI EcoRI EcoRV Fnu4H

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FIG. 1C

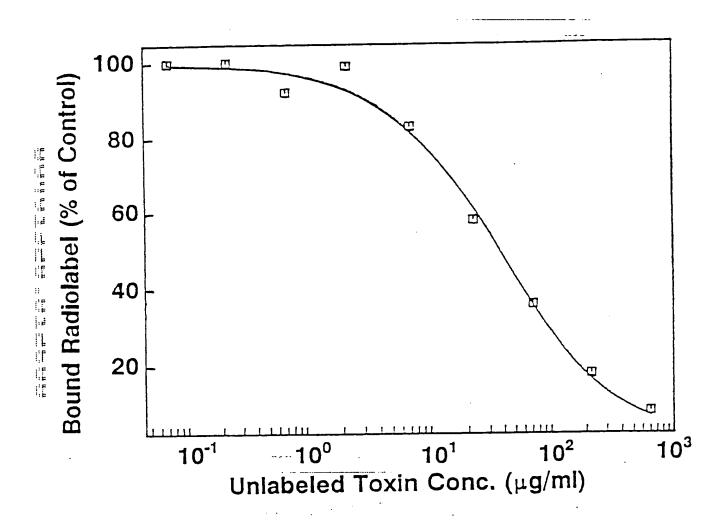


FIG. 2

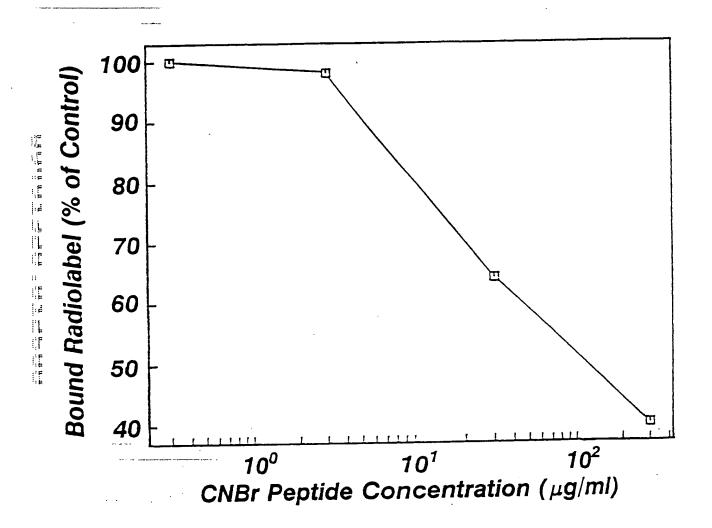


FIG. 3

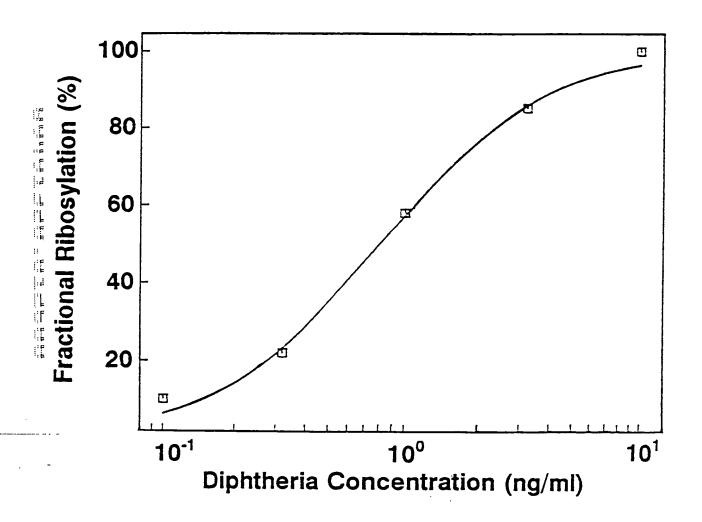


FIG. 4

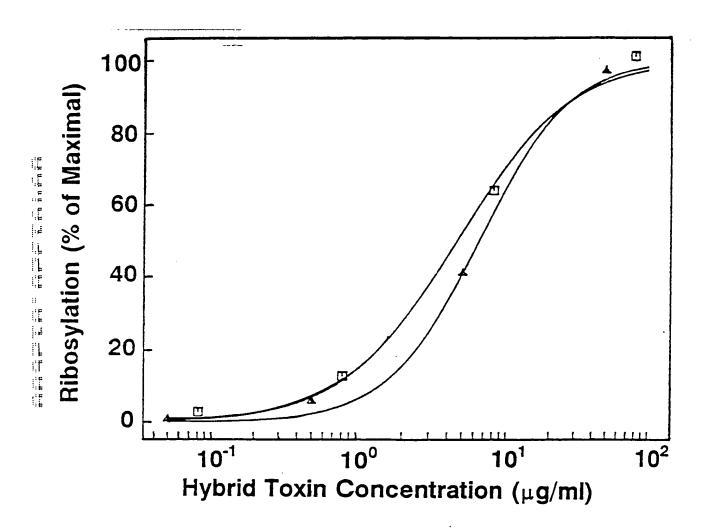


FIG. 5

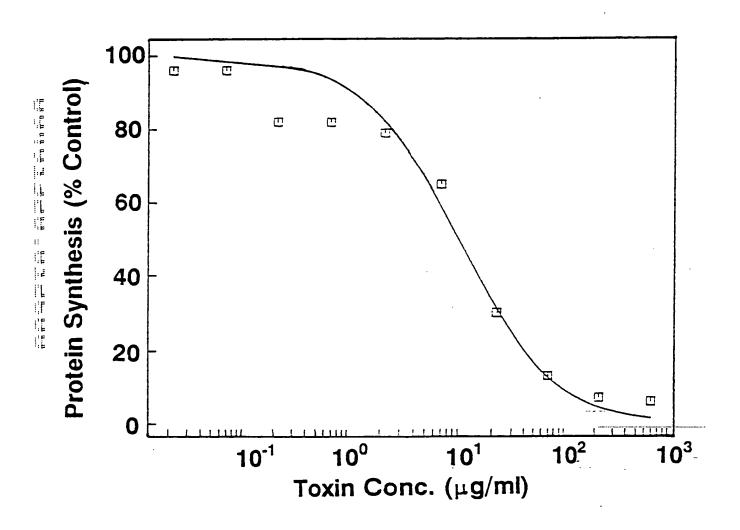


FIG. 6

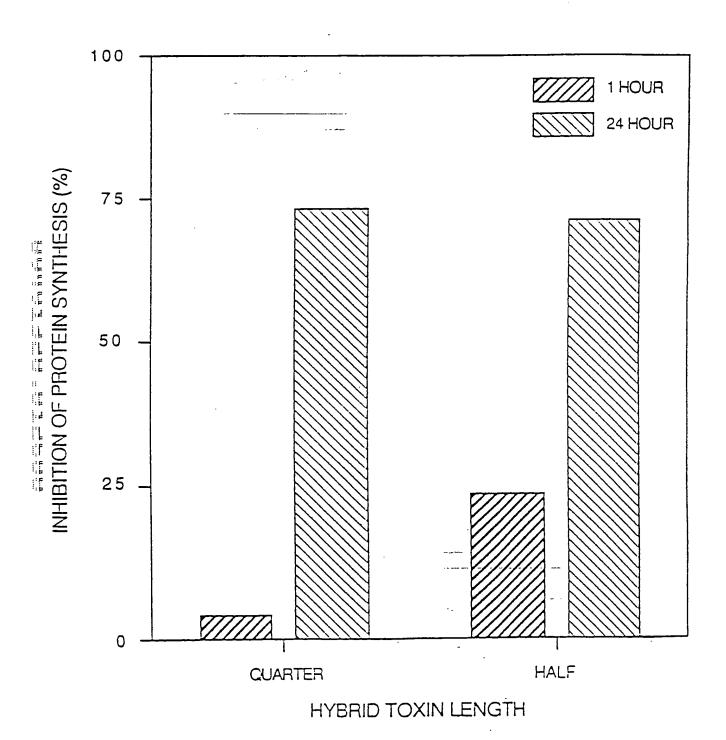


FIG. 7

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7.0	. 20	3 N	40	50	60	70	80
10 GTGAGCAGAAAAC	TGTTTGCGTCA	ATCTTAATA	GGGGCGCTACT	GGGGATAGGG	GCCCCACCTT	CAGCCCATG	CAGGCGC
G1CMC GIIGIZZZZZ							
90	100	110	120		140 \CC\CGGG\CT	LDU LDUCEGTI	
TGATGATGTTGTT							
170 ATTCCATTCAAAA	180	190	200	210	220	230	240
ATTCCATTCAAAA	AGGTATACAAA	AGCCAAAAT	CTGGTACACAA	GGAAATTATO	SACGATGATTO	GAAAGGGTT:	TTATAGT
250	260	270	280	290	300	3 ד 0 ברונפש פפרפי	320 7667622
250 ACCGACAATAAAT	'ACGACGCTGC3	GGATACTCT	GTAGATAATGA	MAACCCGCIC	LICIGGAAAA	CIGOREGES.	roordan
220	340	350	360	370	380	390	400
330 AGTGACGTATCCA	OPC KADOKOTOKOA.	.GGTTCTCGC	ACTAAAAGTGG	ATAATGCCG	AAACTATTAAG	AAAGAGTTA	GGTTTAA
MG 1 GACG LATE CO.							
410	420	430	440 CCC33C3CTTTT	450	460	470	480 TCT3 CTC
410 GTCTÇACTGAACC	GLIGHIGGAG	and Locar	CGGWYGYG				reincie
ing.	500	= 1.0	520	530	540	550	560
्री 490 CTCAGCCTTCCCT	500 magangsana	₽₽₽ ₽₽₽₽₽₽₽₽₽	GTTGAATATAI	TAATAACTG	GGAACAGGCG?	AAAGCGTTAA	GCGTAGA
C'CAGCCILCC.	LCGCIGAGGGG		4.1.0.2				
570	580	590	600	610	620	630	640
₩ ₩ 570 ACTT@AGATTAAT	TTTGAAACCC	STGGAAAACG	TGGCCAAGAT	GCGATGTATG2	AGTATATGGC	rcaageergr	GCAGGAA
L E 650 ATCGTGTCAGGCG			620	690	700	710	720
∰ 650	660 3 mas ams a ams	/ حاصر ج سفرجی و ۱۸ م	יים מאגיינטיינטיינטיינטיי	CTTGATTGG	GATGTCATAA(GGATAAAAC'	TAAGACA
ATCGTGTCAGGGG	-ATUAGIAGE	36676W7767	C.12 C O.1.2.1.				
730	740	750	760	770	780	790	800
# 730 AAGA¶AGAGTCTT	TGAAAGAGCAT	IGGCCCTATC	AAAAATAAAA	[GAGCGAAAG]	ICCCAATAAA	ACAGTATOTG.	AGGAAAA
i ↓ :' F			0.4.0	250	860	870	880
F 810 AGCTAAACAATAC	820	830 mmc3mc3330	840 2003 MM2 G2 G0	₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	TGTCAGAACTI	PAAAACCGTT	ACTGGGA.
AGCTARACAATAC	CTAGAAGAAT	ITCAICAAAC	CACALLADDO.				
890	900	910	920	930	940	950	960
890 CCAATCCTGTATI	CGCTGGGGCT?	AACTÄTGCGG	CGTGGGCAGT	LAACGTTGCG:	CAAGTTATCG2	ATAGCGAAAC.	AGCTGAT
					1020	1030	1040
970 AATTTGGAAAAGA	980	990	1000	TOTO	┸℧ℤ℧ ℁⅀⅊ⅆⅆⅆⅆ℧	TUDU FCAGACGGTG	CCGTTCA
AATTTGGAAAAGA	ACAACTGCTGCT	rct tracaria	CITCLIGE A	CGGINGCGI			
1050	1060	1070	1080	1090	1100	1110	1120
1050 CCACAATACAGAA	LOGO AGAGATAGTGG(CACAATCAAT	'AGCTTTATCG	CTTTAATGG	TTGCTCAAĞC:	PATTCCATTG:	GTAGGAG
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1130	1140	1150	1160	1170	1180	1190 ragmmeamaa'	
1130 AGCTAGTTGATA	TGGTTTCGCT	SCATATAAT I	TTGTAGAGAG:	LATTATCAAT	TIATITCAAG.	TVGIICUIWU	

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				1570			1600
TGTGCATGCTAAC	CTGTTTCGA	ACAGTTTCCC	\ATTAACAAG?	AGAAATTTATA	CAAACCCAGT	'ATTAGAAAA'	TTTTGATG
1610	1620	1630	1640	1650	1660	1670	1680
GTAGTTTTCGAGG							
0101							
1690	1700	1710	1720	1730	1740	1750	1760
ATCTATACGGATG	CICALAGGGG		. IGGICAGGG	·	0001101001	ornoodrii.	2000000
		1700	1000	1010	1000	1020	3040
1770				1810			1840
AGAATTCACTTTT	CCGCTATATG	CAACTATGGG	AAATGCAGCT	CCACAACAAC	GTATTGTTGC	TCAACTAGGT	CAGGGCG
•							
1850	1860	1870	1880	1890	1900	1910	1920
TGTATAGAACATT	ATCGTCCACI	TTATATAGAA	GACCTTTTAA	TATAGGGATA	AATAATCAAC	AACTATCTGT	TTCTTGAC
1930	1940	1950	1960	1970	1980	1990	2000
	- 4 4 C T T T T T T T T T T T T T T T T T	ים בער ביים ביים ביים ביים ביים ביים ביים ביי		י כי כיב בין מיח מיחיקיים:	A A A A A C C C C A		
GGGACAGAATTTG	ClimicGAAC	.c.cci camai		CIGIAIACAG	AAAAAGCGGA	ACGGIAGAI.	CGCIGGA
				2252	2060	2070	2222
2010	2020	2030	2040	2050	2060	20/0	2080
2010 TGAANTACCGCCA	CAGAATAACA	LACGTGCCACC	TAGGCAAGGA	TTTAGTCATC.	GATTAAGCCA'	TGTTTCAATG	TTTCGTT
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. 	2100	2110	2120	2130	2140	2150	2160
CAGGGTTTAGTAA	アンロー	, ברדב תב בתב ב	GAGCTCCTAT	CTTCTCTTGG	ATACATCGTA	GTGCTGAATT	TAATAAT
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2272	2100	2100	2200	2210	2220	2230	2240
1 2-/0	2180	2190	2200	2210	TOTAL	2230 TCTCT33MMT	2240
ATAATTGCATCGG	ATAGTATTAC	TCAAATCCCT	'GCAG'I'GAAGG	GAAACTTTCT	TTTTAATGGT	iciciaaiii	JUADUALL
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<u></u> 2250	2260	2270	2280	2290	2300		2320
- AGGAÜÜTACTGGT(GGGACTTAG	TTAGATTAAA	TAGTAGTCGA	AATAACATTC	AGAATAGAGG:	GTATATTGAA	GTTCCAA
i i							
# 2330	2340	2350	2360	2370	2380	2390	2400
TTCACTTCCCATC	רות בשנים ער כב סבים	ישמים ביים ביים משמים ביים ביים ביים ביים ביים ביים ביים ב	, , , , , , , , , , , ,	الاسلامات الاستراث المراث ا			
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136 12 5 - 1 - 4		2420	2442	2450	2460	2470	2480
2410		2430		2450			
TGGGĠĒAATTCAT	CCATTTTTTC	CAATACAGTA	.CCAGCTACAG	CTACGTCATT	AGATAATCTA(CAA'I'CAAG'I'G	ATTTTGG
2490	2500	2510	2520	2530	2540	2550	2560
TTATTTTGAAAGT						FAGTGGGACT	'GCAGGAG
2570	2590	2590	2600	2610	2620		
						ח	
TGATAATAGACAGA	ATTTIGAATTT	ATTCCAGTTA	CTGCAACACT	CGAGTAGTAG	GICGALAGCI.	L	
1210	1220	1230	1240	1250	1260	1270	1280
AATCGTCCCGCGTA							
marcer cococo:	1-1010000	GCATAAAACG	CAACCATTTC	JUNIUALUU.	GTATGCTGTCA	AGTTGGAACA	CIGITGA
• • • •							
1290				1330			
AGATTCGATAATC	CGAACTGGTT	TTCAAGGGGA	GAGTGGGCAC	GACATAAAAA	TTACTGCTGA	AATACCCCG	CTTCCAA
1370	1380	1390	1400	1410	1420	1430	1440
TCGCGGGTGTCCTA							
						LICOLIMA	
1/50	1460	1470	1400	1400	1500	1510	1520
1450				1490			
AAAATAAGGATGCG	TTGCAGAGC'	TATAGACGGT	GATGTAACTT	TITGTCGCCC	TAAATCTCCTG	TTTATGTTG	GTAATGG

10	20	20	4.0	50	60	70	
10 GTGAGCAGAAAAC	᠘᠐ ᡎᢎᠽᡎᡎᢎᠸᢎᡎᢗ	U C ATATTTAATA	GGGGCGCTAC	50 TGGGGATAGG	GGCCCCACCT	70 TCAGCCCATG	80 CAGGCGC
-							
90	100	110	120	130	140	150	160
TGATGATGTTGTT	GATTCTTCTA	AATCTTTTGT	GATGGAAAAC' '	TTTTCTTCGT.	ACCACGGGAC	TAAACCTGGT	TATGTAG
170	180	190	200	210	220	230	240
ATTCCATTCAAAA	AGGTATACAA	AAGCCAAAAT	CTGGTACACA	AGGAAATTAT	GACGATGATT	ggaaagggtt'	PTATAGT
250 ACCGACAATAAAT	260 ACGA CGCTGC	270 ccc2m2cmcm	280 GT1G1T2ATG	290 AAAACCCGCT	OTCTGGAAAA	SCTGGAGGCG'	20 ZGGTGA2
330 AGTGACGTATCCA	340	350	360	370	380	390	400
AGTGACGTATCCA	GGACTGACGA	AGGTTCTCGC	ACTAAAAGTG(GATAATGCCG.	AAACTATTAA	GAAAGAGTTA	GGTTTAA
430	420	430	440	450	460	470	480
410 GTCTČŽCTGAACC	GTTGATGGAG	CAAGTCGGAA	.CGGAAGAGTT!	TATCAAAAGG	TTCGGTGATG	GTGCTTCGCG	IGTAGTG
1 }							
# 490 CTCAGCCTTCCCT	500	510	520	530	540	550	560 2200
CTCAGCCTTCCCT	TCGCTGAGGG	GAGTTCTAGC	GTTGAATATA.	TTAATAACTG	essistanti.	MANGCG11AM	GCGIAGA
i 570	580	590	600	610	620	630	640
L 570 ACTTGAGATTAAT	TTTGAAACCC	GTGGAAAACG	TGGCCAAGAT	GCGATGTATG	agtatatggc'	TCAAGCCTGT	GCAGGAA
ji Ç							
# 650 ATCGT <mark>@</mark> TCAGGCG	2 m C 2 G T 2 G G T	260mC2mmCm 6	ייסס "אאבייביבייביביי	690 TCTTGATTGG	700 GATGTCATAA	GGGATAAAAC'	TAAGACA
: •							
# 730 AAGATAGAGTCTT	740	750	760	770	780	790	800
AAGATAGAGTCTT	TGAAAGAGCA	TGGCCCTATC	<u>AAAAA</u> TAAAA!	rgagcgaaag	TCCCAATAAA	ACAGTATUTG.	aaahabbh
เ⊥ื่ ≋า∩	820	830	840	850	860	870	880
AGCTAÂACAATAC	CTAGAAGAAT	TTCATCAAAC	GGCATTAGAG	CATCCTGAAT	TGTCAGAACT	TAAAACCGTT.	ACTGGGA
890 CCAATCCTGTATT	900	910 33.003.0000	920	930 AAACGTTGCG	940 CAAGTTATCG	950 ATAGCGAAAC.	AGCTGAT
9.70	980	990	1000	1010	1020	1030	1040
AATTTGGAAAAGA	CAACTGCTGC	TCTTTCGATA	CTTCCTGGTA!	ICGGTAGCGT.	AATGGGCATT(GCAGACGGTG:	CCGTTCA
1050	1060	1070	1080	1090	1100	1110	1120
1050 CCACAATACAGAA	1060 GAGATAGTGG	CACAATCAAT	AGCTTTATCG				
1130	1140	1150	1160	1170			
AGCTAGTTGATAT	TGGTTTCGCT	GCATATAATT	TTGTAGAGAG	PATTATCAAT	TTATTTCAAG.	ingiichinn.	Licuini

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	1210	1220	1230	1240	1250	1260	1270	1280
AATC	STCCCGCGTAI	TCTCCGGGGC	ATAAAACGCA	ACCATTTCTI	'CATGACGGGT	ATGCTGTCAG	TIGGAACACI	GTT GA
	1290	1300	1310	1320	1330	1340	1350	1360
AGATT				GTGGGCACGA				TCCAA
	1370	1380	1390	1400	1410	1420	1430	
TCGCG	GGTGTCCTAC	TACCGACTAT	TCCTGGAAAG	CTGGACGTTA	ATAAGTCCAA	GACTCATATT	TCCGTAAATG	GTCGG
	1450	3460	1470	1480	1490	1500	1510	1520
22225	1450	mcararum Tago	TAGACGGTGA	TGTAACTTTT	TGTCGCCCTA	AATCTCCTGT	TTATGTTGGT.	AATGG
• • • • • • •								
ij	l 1530	1540	1550	1560	1570	1580	1590	1600
TGTGC	ātgcaggtgc	AGCTCCTATG	TTCTCTTGGA'	TACATCGTAG	TGCTGAATTT	AATAATATAA	TTGCATCGGA	TAGTA
·	eş							
	[1610	1620	1630	1640	1650	1660	1670	1680
TTACT	EAAATCCCTG	CAGTGAAGGG	AAACTTTCTT'	TTTAATGGTT	CTGTAATTTC	AGGACCAGGA	TTTACTGGTG	GGGAC
	:							
!,	1690	1700	1710	1720	1730	1740	1750	1760
TTAGT	TAGATTAAAT	AGTAGTCGAA	ATAACATTCA	GAATAGAGGG	TATATTGAAG	TTCCAATTCA	CTTCCCATCG.	ACATC
1,	Ė							
!!	1770	1780	1790	1800	1810	1820	1830	1840
TACCA	EATATCGAGT	TCGTGTACGG	TATGCTTCTG'	TAACCCCGAT	TCACCTCAAC	GTTAATTGGG	GTAATTCATC	CATTT
	į.							
	1 1850	1860	1870	1880	1890	1900	1910	1920
TTTC	RATACAGTAC	CAGCTACAGC	TACGTCATTA	GATAATCTAC	AATCAAGTGA	TTTTGGTTAT	TTTGAAAGTC	GCAAT
3	Ę							
•	1930	1940	1950	1960	1970	1980	1990	2000
CCTTT	TACATOTTCA	TTAGGTAATA	TAGTAGGTGT'	TAGAAATTTT	AGTGGGACTG	CAGGAGTGAT	AATAGACAGA'	TTTGA
	2010	2020	2030	2040				

FIG. 9B

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ロメヘス にゅんてん けんてい じじょい じょうじょう 人 QA L H M H K Y A S B D A V G T S A N G S D K S D K S D K S E C S H C HGATTAHY HVH キャトロース そよそろ スエエ ピスエヨ の ヘヘMmヘ冖NAV S × O O O > A O H H H H B A O O X > O > A > ひよらと MSOOHTOTFK GK SAOVAV A X X H L B B L A X A L L B B L A X A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A L L B R A しらしじらやけしとはようほん じじょほうかドラサ 入らひけれれぼらとらり ひらま まり入り 声エエス O F O K O S F S K II O K P K K II O S S II S F F H N N H H N C H H N C H H N C N H H N C N マスメ さん HG G T R 守 の ヘ 圧 マ ヘエ ヘ 団 り N H T らりの上述氏工氏用エママスNOLAWOEMSF 入下 T P P P B R B Q Q Q Q B B D R S R R R R B B よさんてませつらんへびりぬHXAAVエHS LXSEESSKIFKH>> H KKZHGZXK K S X Z A D J Z S H A C Z O Z H Z D F K J S D 8 0 X > 0 F X K H J Z J S J H K D Q H D H N > Q S > R A C X > A H S Z > A X G X H A S > 541 571 601 631 1 91 61 1121 1121 1121 121 121 121 131 331 361 91 21 51 81 51.1

FIG. II